

Luis Alvarado Labarca

Graduate Computer Science Student

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EDUCATION

University of Utah

Master of Science in Computer Science

Salt Lake City, UT

Aug 2025 – Dec 2026

Bachelor of Science in Computer Science, GPA: 3.61

Jan 2022 – May 2025

Coursework: Natural Language Processing, Deep Learning, Machine Learning, Data Mining, Advanced Database Systems, Foundations of Data Analysis, Computer Security

Awards: Hispanic Scholarship Fund Scholar 2023 & 2021, IBM Accelerate Program Participant 2023, Utah Flagship Scholarship 2020, QuestBridge Finalist 2020

TECHNICAL SKILLS

Languages: AppScript, C, C#, C++, CSS, HTML, Java, JavaScript, Python, SQL, TypeScript

Frameworks & Libraries: D3.js, Expo, Jest, NumPy, pandas, PyTorch, React, React Native, scikit-learn

Developer Tools: AWS (Lambda, RDS, S3), Bash, Docker, Excel, Figma, Git, Google Cloud Platform

PROJECTS

Passenger Pilot App | TypeScript, Node.js, React Native, AWS, Google Cloud, Docker

Aug 2024 – May 2025

A cross-platform application focused on road-tripping. The app provided users with a custom route based on driving preferences and helped road trippers with expense tracking and collaboration among travelers.

- Constructed the UI/UX screens related to expense tracking and trip collaboration as well as connecting to their respective internal API calls
- Authored interfaces for results from Google Cloud Vision AI, Google Generative AI, and AWS S3 API requests
- Designed the ER diagram for the backend MySQL database, which our developers used to build the database
- Reviewed four merge requests a week across the full stack by examining functionality, code style, and edge cases

Learning Management System Database Backend (LMS Database) | C#, SQL

Jan 2024 – Apr 2024

A backend server that would receive internal API requests from the LMS frontend and handle those requests.

- Designed and developed a backend database using C# and SQL for a LMS web application, which included features like enrollment, assignment creation, assignment grading, and course catalogs
- Implemented C# controllers to handle UX interactions from the web app, updating the MySQL database
- Connected the MySQL database to the codebase using MySQLConnector, ADO.NET, and Entity Framework as the ORM

Salt Lake City Public Library Seed Program Inventory Dashboard | AppScript

Aug 2023 – Oct 2023

An automated inventory management system that employees and patrons could use to update and check inventory.

- Developed Google Sheets inventory system for the Salt Lake City Public Library's seed-sharing program using Google Forms for data collection and updates
- Automated inventory management using AppScript to update inventory availability, enabling analysis of seed checkouts and facilitating easier inventory searches, which improved efficiency by eliminating the need for manual updates
- Constructed a dashboard in Google Sheets that displayed patron usage and seed checkouts of the seed library

WORK EXPERIENCE

Teaching Assistant

Aug 2024 – Present

University of Utah - Kahlert School of Computing

Salt Lake City, UT

- Worked with professors to give feedback and track progress of student teams towards their capstone projects
- Collaborated with the primary professor to grade assignments and return feedback with a one-week turnaround
- Hosted weekly office hours for 10–30 students to help with practice problems, homework, and general support

Library Assistant

Jan 2022 – Oct 2023

Salt Lake City Public Library

Salt Lake City, UT

- Collaborated with librarians to improve library services and programs for community members
- Involved in supporting digital inclusion among community members through library technology programs